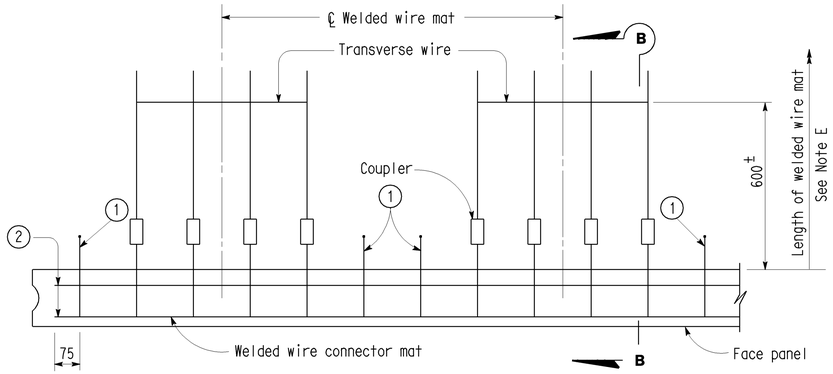
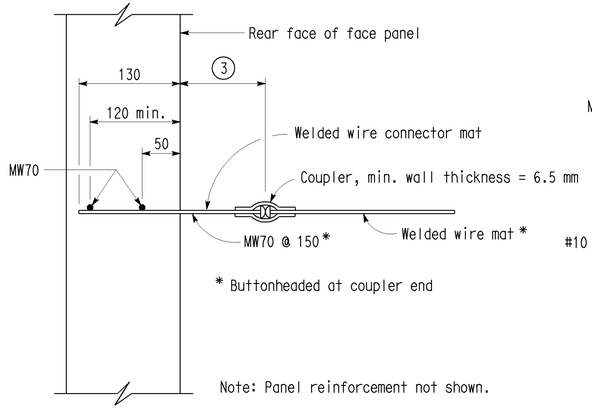


PART PLAN

(1) These wires may be bent down at rear face of panel after concrete has sufficient strength to prevent spalling concrete or they may be cut back to provide 32 mm concrete cover. These wires connect to mat for 6 mat density .

(2) Bend these wires to provide a minimum of 32 mm cover to end of connector mat.

Note: Panel reinforcement not shown.
Panel with 4 mat density is shown. Panel with 6 mat density is similar.

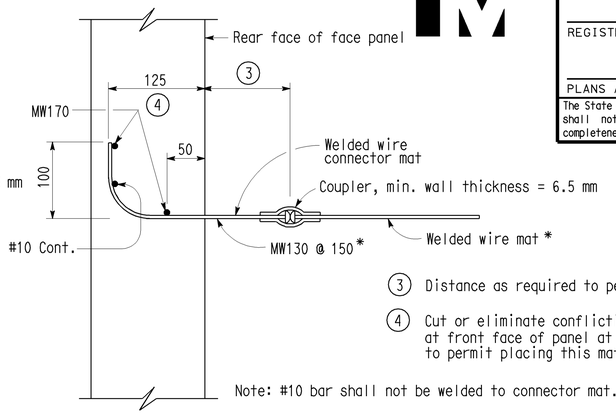


* Buttonheaded at coupler end

Note: Panel reinforcement not shown.

SECTION B-B

Welded wire mats with MW70 longitudinal wires



(3) Distance as required to permit coupler to be swaged.

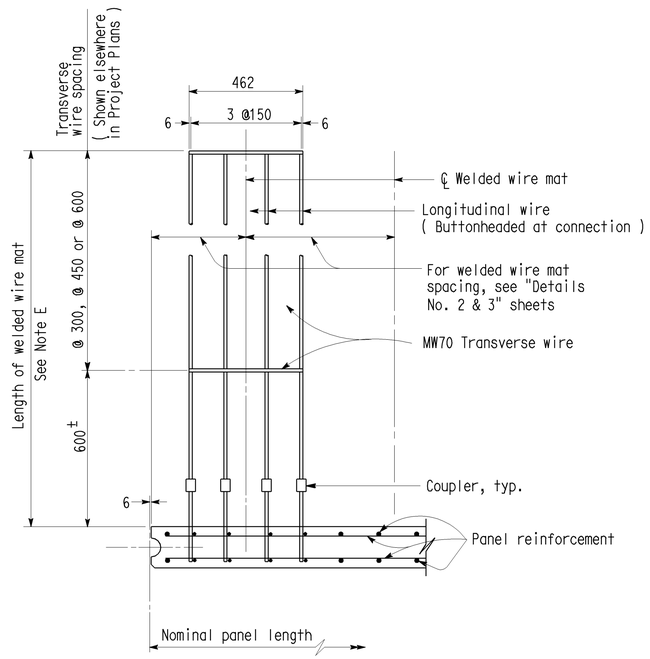
(4) Cut or eliminate conflicting MD40 wire of panel reinforcement at front face of panel at level of welded wire connector mat to permit placing this mat at 125 mm embedment.

Note: #10 bar shall not be welded to connector mat.

SECTION B-B

Welded wire mats with MW130 longitudinal wires

WELDED WIRE MAT CONNECTION DETAIL



WELDED WIRE MAT DETAIL

Note E: Length equals "Base Width" of wall, except it shall not be less than 5.0 m for top level of mats for the top panels when a concrete barrier is used.

GENERAL NOTES

Live loading: Surcharge -11.5 kPa

Soil parameters:

Internal design - $\phi = 34^{\circ}$, $\gamma = 19\ kN/m^3$
External design - ϕ (Backfill) $= 34^{\circ}$, $\gamma = 19\ kN/m^3$
ϕ (Foundation) $= 30^{\circ}$

Precast concrete panels:

f'c = 28 MPa (Concrete compressive strength at 28 days)
fy = 420 MPa (Yield strength of reinforcement)

Soil reinforcement:

Welded wire mats: - fy = 450 MPa (Yield strength)
Coupler: - fy = 250 MPa (Yield strength)
Corrosion rate - 33 µm / year

Reinforced concrete:

f'c = 25 MPa, except as noted (Concrete compressive strength at 28 days)
fy = 420 MPa (Yield strength of reinforcement)

MSE = Mechanically stabilized embankment

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Caltrans Metric

REGISTERED ENGINEER - CIVIL

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

STANDARD DRAWING				
RELEASE DATE 3/24/98	DESIGN BY J.C. MOESE	CHECKED S.D. WIMAN	RELEASED BY Shannon L. Post
FILE NO. xs13-010-4	DETAILS BY R. YEE	CHECKED S.D. WIMAN	OFFICE CHIEF
	SUBMITTED BY	DRAWING DATE 3/98	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

CU
EA

BRIDGE NO.

KILOMETER POST

MECHANICALLY STABILIZED EMBANKMENT DETAILS NO. 4

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF